

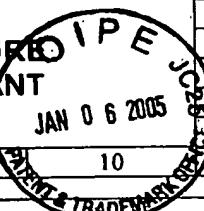
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Substitute for form 1449A/PTO

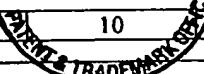
Complete If Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



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of

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Application Number	10/717,623
Filing Date	November 21, 2003
First Named Inventor	Babin et al.
Serial Number	1722
Examiner Name	Timothy W. Heitbrink
Attorney Docket Number	2107.1900001/TUM/NRK

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
TWHT	AA1	2,865,050	12/23/1958	Strauss	
	AB1	3,488,810	01-13-1970	Gellert	
	AC1	3,677,682	07/18/1972	Putkowski	
	AD1	3,716,318	02-13-1973	Erik et al.	
	AE1	3,741,704	06-26-1973	Beasley	
	AF1	3,952,927	04-27-1976	Schaumburg et al.	
	AG1	4,004,871	01-25-1977	Hardy	
	AH1	4,010,903	03/08/1977	Sakuri et al.	
	AI1	4,013,393	03/22/1977	Gellert	
	AJ1	4,043,740	08/23/1977	Gellert	
	AK1	4,053,271	10/11/1977	Gellert	
	AL1	4,173,448	11/06/1979	Rees et al.	
	AM1	4,268,240	05/19/1981	Rees et al.	
	AN1	4,268,241	05/19/1981	Rees et al.	
	AO1	4,279,588	07/21/1981	Gellert	
	AP1	4,286,941	09/01/1981	Gellert	
	AQ1	4,306,852	12/22/1981	Mateev et al.	
	AR1	4,312,630	01/26/1982	Travaglini	
	AS1	4,368,028	01/11/1983	Grish et al.	
	AT1	4,412,807	11/01/1983	York	
	AU1	4,517,453	05/14/1985	Tsutsumi	
	AV1	4,652,230	03/24/1987	Osuna-Diaz	
	AW1	4,662,837	05/05/1987	Anderson	
	AX1	4,768,283	09/06/1988	Gellert	
	AY1	4,768,945	09/06/1988	Schmidt et al.	
TWHT	AZ1	4,771,164	09/13/1988	Gellert	

Examiner Signature	Date Considered
	11-1-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

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Substitute for form 1449A/PTO				Complete If Known	
				Application Number	10/717,623
				Filing Date	November 21, 2003
				First Named Inventor	Babin et al.
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
				Attorney Docket Number	2107.1900001/TUM/NRK
Sheet	2	of	10		

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		Number-Kind Code ² (If Known)			
TWH	AA2	4,781,572	11/01/1988	Boring	
	AB2	4,787,836	11/29/1988	Osuna-Diaz et al.	
	AC2	4,832,593	05/23/1989	Brown	
	AD2	4,875,848	10/24/1989	Gellert	
	AE2	4,902,218	02/20/1990	Leonard et al.	
	AF2	4,911,636	03/27/1990	Gellert	
	AG2	4,925,384	05/15/1990	Manner	
	AH2	4,945,630	08/07/1990	Gellert	
	AI2	4,950,154	08/21/1990	Moberg	
	AJ2	4,954,072	09/04/1990	Zimmerman	
	AK2	4,981,431	01/01/1991	Schmidt	
	AL2	5,015,170	05/14/1991	Gellert	
	AM2	5,028,227	07/02/1991	Gellert et al.	
	AN2	5,030,084	07/09/1991	Gellert et al.	
	AO2	5,053,271	10/01/1991	Mori et al.	
	AP2	5,067,893	11/26/1991	Osuna-Diaz	
	AQ2	5,141,696	08/25/1991	Osuna-Diaz	
	AR2	5,208,052	05/04/1993	Schmidt et al.	
	AS2	5,254,305	10/19/1993	Fernandez et al.	
	AT2	5,268,184	12/07/1993	Gellert	
	AU2	5,269,677	12/14/1993	Gauler	
	AV2	5,299,928	04/05/1994	Gellert	
	AW2	5,324,191	05/28/1994	Schmidt	
	AX2	5,334,008	08/02/1994	Gellert	
	AY2	5,360,333	11/01/1994	Schmidt	
TWH	AZ2	5,374,182	12/20/1994	Gessner	

Examiner Signature 	Date Considered	11-1-05
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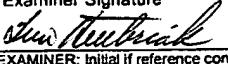
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				Application Number	10/717,623
				Filing Date	November 21, 2003
				First Named Inventor	Babin et al.
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
				Attorney Docket Number	2107.1900001/TUM/NRK
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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
TW/H	AA3	5,421,716	06/06/1995	Gellert	
TW/H	AB3	5,443,381	08/22/1995	Gellert	
TW/H	AC3	5,474,439	12/12/1995	McGrevey	
TW/H	AD3	5,492,467	02/20/1996	Hume et al.	
TW/H	AE3	5,501,594	03/26/1996	Glozer et al.	
TW/H	AF3	5,505,613	04/09/1996	Krummenacher	
TW/H	AG3	5,545,028	08/13/1996	Hume et al.	
TW/H	AH3	5,554,395	09/10/1996	Hume et al.	
TW/H	AI3	5,569,475	10/29/1996	Adas et al.	
TW/H	AJ3	5,652,003	07/29/1997	Gellert	
TW/H	AK3	5,658,604	08/19/1997	Gellert et al.	
TW/H	AL3	5,674,439	10/07/1997	Hume et al.	
TW/H	AM3	5,686,122	11/11/1997	Huntington et al.	
TW/H	AN3	5,695,793	12-09-1997	Bauer	
TW/H	AO3	5,700,499.	12-23-1997	Bauer	
TW/H	AP3	5,707,667	01/13/1998	Galt et al.	
TW/H	AQ3	5,736,171	04/07/1998	McGrevey	
TW/H	AR3	5,795,599	08/18/1998	Gellert	
TW/H	AS3	5,804,228	09/08/1998	Kofsman et al.	
TW/H	AT3	5,811,140	09/22/1998	Manner	
TW/H	AU3	5,820,899	10/13/1998	Gellert et al.	
TW/H	AV3	5,834,041	11/10/1998	Sekine et al.	
TW/H	AW3	5,849,343	12/15/1998	Gellert et al.	
TW/H	AX3	5,871,786	02/16/1999	Hume et al.	
TW/H	AY3	5,879,727	03/09/1999	Puri	
TW/H	AZ3	5,885,628	03/23/1999	Swenson et al.	

Examiner Signature 		Date Considered	11-1-05
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Substitute for form 1449A/PTO				Complete If Known	
				Application Number	10/717,623
				Filing Date	November 21, 2003
				First Named Inventor	Babin et al.
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
				Attorney Docket Number	2107.1900001/TUM/NRK
Sheet	4	of	10		

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If Known)			
TWH	AA4	5,894,025	04/13/1999	Lee et al.	
TWH	AB4	5,895,669	04/20/1999	Seres, Jr. et al.	
TWH	AC4	5,925,386	07/20/1999	Moberg	
TWH	AD4	5,941,637	08/24/1999	Maurer	
TWH	AE4	5,948,450	09/07/1999	Swenson et al.	
TWH	AF4	5,980,234	11/09/1999	Harley	
TWH	AG4	5,980,237	11/09/1999	Swenson et al.	
TWH	AH4	6,003,182	12/21/1999	Song	
TWH	AI4	6,009,616	01/04/2000	Gellert	
TWH	AJ4	6,017,209	01/25/2000	Gellert et al.	
TWH	AK4	6,022,210	02/08/2000	Gunther	
TWH	AL4	6,030,202	02/29/2000	Gellert et al.	
TWH	AM4	6,050,806	04/18/2000	Ko	
TWH	AN4	6,074,195	06/13/2000	Belous	
TWH	AO4	6,089,468	07-18-2000	Bouti	
TWH	AP4	6,135,757	10/24/2000	Jenko	
TWH	AQ4	6,143,358	11/07/2000	Singh et al.	
TWH	AR4	6,164,954	12/26/2000	Mortazavi et al.	
TWH	AS4	6,220,851 B1	04/24/2001	Jenko	
TWH	AT4	6,227,461 B1	05/08/2001	Schroeder et al.	
TWH	AU4	6,234,783	05/22/2001	Shibata et al.	
TWH	AV4	6,245,278 B1	06/12/2001	Lausenhammer et al.	
TWH	AW4	6,254,377 B1	07/03/2001	Kazmer et al.	
TWH	AX4	6,261,084 B1	07/17/2001	Schmidt	
TWH	AY4	6,264,460 B1	07/24/2001	Wright et al.	
TWH	AZ4	6,273,706	08/14/2001	Gunther	

Examiner Signature
Date Considered
11-1-05

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Rev. 11-03-03 svb

Substitute for form 1449A/PTO				Complete If Known	
				Application Number	10/717,623
				Filing Date	November 21, 2003
				First Named Inventor	Babin et al.
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
				Attorney Docket Number	2107.1900001/TUM/NRK
Sheet	5	of	10		

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		Number-Kind Code ² (If Known)			
TWH	AA5	6,287,107 B1	09/11/2001	Kazmer et al.	
TWH	ABS	6,309,208 B1	10/30/2001	Kazmer et al.	
TWH	ACS	6,315,549 B1	11/13/2001	Jenko et al.	
TWH	ADS	6,318,990 B1	11/20/2001	Gellert et al.	
TWH	AES	6,331,106	12/18/2001	Helldin	
TWH	AFS	6,358,038 B1	03/19/2002	Rozenberg	
TWH	AG5	6,358,039	03/19/2002	Manner et al.	
TWH	AHS	6,394,785 B1	05/28/2002	Ciccone	
TWH	AT5	6,419,116 B1	07/16/2002	Eigler et al.	
TWH	AJ5	6,428,305 B2	08/06/2002	Jenko	
TWH	AK5	6,533,571 B2	03/18/2003	Fikani	
TWH	ALS	6,609,902 B1	08/26/2003	Blais et al.	
TWH	AMS	6,709,262 B2	03/23/2004	Fong	
TWH	ANS	6,726,467 B1	04/27/2004	Lefebure	
TWH	AO5	6,769,901 B2	08/03/2004	Babin et al.	
TWH	APS	6,821,112 B2	11/23/2004	Eigler et al.	
TWH	AQ5	6,832,909 B2	12/21/2004	Bazzo et al.	
TWH	AR5	US 2003/0008034 A1	01/09/2003	Niewels	
TWH	AS5	US 2003/0082263 A1	05/01/2003	Olaru	
TWH	AT5	US 2003/0082264 A1	05/01/2003	Babin et al.	
TWH	AUS	US 2003/0086997 A1	05/08/2003	Olaru	
TWH	AV5	US 2003/0170340 A1	09/11/2003	Sicilia et al.	
TWH	AWS	US 2003/0235638 A1	12/25/2003	Gellert	
TWH	AX5	US 2004/0071817 A1	04/15/2004	Fischer et al.	
	AY5				
	AZ5				

Examiner Signature <i>Timothy W. Heitbrink</i>	Date Considered	11-1-05
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Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		<i>Application Number</i>	10/717,623
(Use as many sheets as necessary)		<i>Filing Date</i>	November 21
		<i>First Named Inventor</i>	Babin <i>et al.</i>
		<i>Art Unit</i>	1722
		<i>Examiner Name</i>	Timothy W. Heitbrink
		<i>Attorney Docket Number</i>	2107.190001/TUM/NRK
Sheet	6	of	10

FOREIGN PATENT DOCUMENTS

Examiner Initials*	C i t e N o :	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ⁴ Kind Code ⁵ (in known)				
ZWH	BA1	GB 1 540 698	02/14/1979	Gellert		
ZWH	BB1	CA 2,082,700	05/13/1994	Gellert		
ZWK	BC1	DE 3245571 A1	06/20/1984	Manner		
ZWK	BD1	DE 29602484	05/09/1996	Manner		
ZWK	BE1	DE 19608676	01/30/1997	Schroder		
ZWH	BF1	DE 100 08 722 A1	08/30/2001	Ewikon GmbH		
ZWH	BG1	DE 10037739 A1	02/21/2002	Hilpp et al.		
ZWH	BH1	EP 0 590 677 A1	06/04/1994	Harald Schmidt		
ZWK	BI1	EP 0638407	02/15/1995	Krummenacher		
ZWK	BJ1	EP 0 743 158 A1	11/20/1996	Gellert		
ZWH	BK1	EP 0750975 A1	01/02/1997	Bauer		
ZWH	BL1	EP 0835176 B1	04/15/1998	Stern		

Examiner Signature 		Date Considered 11-1-05
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				<i>Filing Date</i>	November 21, 2003
				<i>First Named Inventor</i>	Babin <i>et al.</i>
				<i>Art Unit</i>	1722
				<i>Examiner Name</i>	Timothy W. Heitbrink
Sheet	7	Of	10	<i>Attorney Docket Number</i>	2107.1900001/TUM/NRK

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ⁴ Kind Code ⁵ (in known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Abstract Attached T ²
TWH	BA2	EP 0873841	10/28/1998	Gellert		
TWH	BB2	EP 0 743 158 B1	08/04/1999	Gellert		
TWH	BC2	EP 0962296 A2	12/08/1999	Guenther		
TWH	BD2	EP 0920969 A1	09/06/1999	Helldin		
TWH	BE2	EP 1188537 A2	03/20/2002	Enrietti		
TWH	BF2	EP 1 321 274 A1	06/25/2003	EP		
TWH	BG2	FR 2537497	06/15/1984	Manner		
TWH	BH2	WO 84/00922	03/15/1984	Oka		
TWH	BI2	WO 97/02129	01/23/1997	Stern		
TWH	BJ2	WO/00/48814	08/24/2000	Gellert <i>et al.</i>		
TWH	BK2	WO 01/28750 A1	10/17/2000	Mold-Masters Ltd.		
TWH	BL2	WO 01/78961	10/25/2001	Babin <i>et al.</i>		
TWH	BM2	WO 02/40245 A1	05/23/2002	Ciccone		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published		
TWH	CA1	Ewikon, HPS IIII-VT Nozzles, 230 V Externally Heated, "For Multi-Cavity Applications and Close Cavity Spacing," pp. 2-7, 10/2001.		
TWH	CB1	Ewikon, HPS III Single Tips, 230 V Externally Heated, "HPS III-SE High Performance Single Tips, 230 V With Tip Sealing Technology," pp. 2-9, 03/2002.		
TWH	CC1	Ewikon, Product Guide, "Internally Heated Hotrunner Systems," pp. 2-7, 10/2000.		
TWH	CD1	Husky Injection Molding Systems, S.A., 750 Series		
TWH	CE1	PCT Search Report for PCT/CA03/01154 dated 12/03/2004		

Examiner Signature <i>Timothy W. Heitbrink</i>		Date Considered 11-1-05
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Rev. 11-03-03 svb

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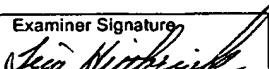
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		Country Code ⁴ Kind Code ⁵ (in known)				
TWHT	BA3	WO 03/04243	01/16/2003	Niewels		
TWHT	BB3	WO 03/028973	04/10/2003	Babin		
TWHT	BC3	WO 03/028974	04/10/2003	Olaru		
TWHT	BD3	WO 03/70446	08/28/2003	Babin		
TWHT	BE3	WO 03/086734	10/23/2003	Gellert et al.		
TWHT	BF3	WO 2004/12923	02/12/2004	Fisher		
TWHT	BG3	JP 05-261770	10/12/1992	Suzuki		
TWHT	BH3	JP 05-177664	07/20/1993	Takeda		
TWHT	BI3	JP 05-309695	11/22/1993	Koyama		
TWHT	BJ3	JP 7-148786	06/13/1995	Konase		
TWHT	BK3	JP 8-90598	04/09/1996	Ishibashi et al.		
TWHT	BL3	JP 10 034708	02/10/1998	Satoshi		
TWHT	BM3	JP 10-264222	10/06/1998	Konishi et al.		

NON PATENT LITERATURE DOCUMENTS

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TWHT	CA2	Ewikon, HPS III-NV Valve Gate Systems, "All Advantages of the Valve Gate Technology in a Most Compact System," p. 209, 10/2001.	
TWHT	CB2	Ewikon, Instruction Manual for Ewikon Hotrunner Systems.	
TWHT	CC2	Ewikon, Hotrunner Systems for the Packaging and Medical Industry, pp. 2-7, 06/2001.	
TWHT	CD2	J.D. Robinson, "Gating and Cooling Techniques for Polypropylene," Plastics, August, 1965, pp. 47-51.	
TWHT	CE2	H.P. Manner, "Nadelverschlußdusen für kurze Zykluszeit," Kunststoffe 85(2): 166-168(1995)	

Examiner Signature 	Date Considered	11-1-05
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Sheet	9	Of	10	Attorney Docket Number	2107.1900001/TUM/NRK
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		Country Code ⁴ Kind Code ⁵ (in known)				
TWH	BA4	JP 10-296798	11/10/1998	Japan		
TWH	BB4	JP 11-254488	09/21/1999	Yamamoto		
TWH	BC4	JP 2002-307492	10/23/2002	Takeda et al.		
TWH	BD4	JP 2003-11173	01/15/2003	Takahashi et al.		
TWH	BE4	JP 2003-11174	01/15/2003	Takahashi et al.		
TWH	BF4	JP 2003-11176	01/15/2003	Murayama et al.		
TWH	BG4	JP 2002-273768	09/25/2002	Takeda et al.		
TWH	BH4	JP 2003-071873	03/12/2003	Horikawa		
TWH	BI4	JP 06-143358	05/24/1994	Yamamoto		
	BJ4					
	BK4					
	BL4					

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published	T ²
TWH	CA3	Ewikon, Hotrunner Systems for Large Parts, pp. 2-11, 05/2000.	
TWH	CB3	Ewikon Brochure 2000, AuBenbeheizte HeiBkanalduse, 230 V, fur schnelle Farbwechsel, 3 pgs.	
TWH	CC3	Daniel Frenkler and Henry K. Zawistowski - RAPRA Technology Ltd., "Hot Runners in Injection Moulds," 2001.	
TWH	CD3	Redacted letter and attached figure addressed to Mold Masters Limited from the representative of Mr. Maurizio Bazzo dated December 21, 2001.	
TWH	CE3	Images and information from "Gunther Hot Runner Technology," taken from Gunther website August 2003.	

Examiner Signature <i>Timothy W. Heitbrink</i>	Date Considered	11-1-05
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Substitute for form 1449B/PTO				<i>Complete If Known</i>	
				<i>Application Number</i>	10/717,623
				<i>Filing Date</i>	November 21, 2003
				<i>First Named Inventor</i>	Babin <i>et al.</i>
				<i>Art Unit</i>	1722
				<i>Examiner Name</i>	Timothy W. Heitbrink
				<i>Attorney Docket Number</i>	2107.1900001/TUM/NRK
Sheet	10	Of	10		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>TWJH</i>	CA4	Kona Corporation Catalog entitled "Kona Bushing for Sprueless Molding," pages 1-24, dated June 25, 2001.	
<i>TWJH</i>	CB4	Product illustration of a Guided Mechanism, Images and information from website of Mold Hotrunner Solutions (date unknown).	
<i>TWJH</i>	CC4	Press Release entitled "Mold-Masters Introduces The New Accu-Gate Virtually Eliminating Gate Wear" (Dec. 12, 2002)	
<i>TWJH</i>	CD4	PCT Search Report for WO 03/70446 (Appl. No. PCT/CA03/00244), dated May 16, 2003	
	CE4		

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